

1600

# CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/009,472B

CRF Edit Date: 1/23/04  
Edited by: AL

**ENTERED**

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

✓ Deleted: ✓ invalid beginning/end-of-file text ; \_\_\_ page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

\_\_\_ Other:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



1600

## RAW SEQUENCE LISTING

DATE: 01/23/2004

PATENT APPLICATION: US/10/009,472B

TIME: 15:45:15

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01232004\J009472B.raw

5 &lt;110&gt; APPLICANT: Lam, Eric

6 del Pozo, Olga

8 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DETECTION OF ACTIVE  
PROTEASES

10 &lt;130&gt; FILE REFERENCE: RU-0170

12 &lt;140&gt; CURRENT APPLICATION NUMBER: US 10/009,472B

13 &lt;141&gt; CURRENT FILING DATE: 2002-03-29

15 &lt;150&gt; PRIOR APPLICATION NUMBER: PCT/US00/11893

16 &lt;151&gt; PRIOR FILING DATE: 2000-05-02

18 &lt;150&gt; PRIOR APPLICATION NUMBER: US 60/132,358

19 &lt;151&gt; PRIOR FILING DATE: 1999-05-04

21 &lt;160&gt; NUMBER OF SEQ ID NOS: 24

23 &lt;170&gt; SOFTWARE: PatentIn version 3.1

25 &lt;210&gt; SEQ ID NO: 1

26 &lt;211&gt; LENGTH: 5

27 &lt;212&gt; TYPE: PRT

28 &lt;213&gt; ORGANISM: Artificial Sequence

30 &lt;220&gt; FEATURE:

31 &lt;223&gt; OTHER INFORMATION: synthetic sequence; caspase-1 cleavage domain

33 &lt;220&gt; FEATURE:

34 &lt;221&gt; NAME/KEY: MISC\_FEATURE

35 &lt;222&gt; LOCATION: (5)..(5)

36 &lt;223&gt; OTHER INFORMATION: "Xaa" represents any amino acid

39 &lt;400&gt; SEQUENCE: 1

W--&gt; 41 Tyr Val Ala Asp Xaa

42 1 5

45 &lt;210&gt; SEQ ID NO: 2

46 &lt;211&gt; LENGTH: 6

47 &lt;212&gt; TYPE: PRT

48 &lt;213&gt; ORGANISM: Artificial Sequence

50 &lt;220&gt; FEATURE:

51 &lt;223&gt; OTHER INFORMATION: synthetic sequence; caspase-2 cleavage domain

53 &lt;220&gt; FEATURE:

54 &lt;221&gt; NAME/KEY: MISC\_FEATURE

55 &lt;222&gt; LOCATION: (6)..(6)

56 &lt;223&gt; OTHER INFORMATION: "Xaa" represents any amino acid

60 &lt;400&gt; SEQUENCE: 2

W--&gt; 62 Val Asp Val Ala Asp Xaa

63 1 5

66 &lt;210&gt; SEQ ID NO: 3

67 &lt;211&gt; LENGTH: 5

68 &lt;212&gt; TYPE: PRT

69 &lt;213&gt; ORGANISM: Artificial Sequence

71 &lt;220&gt; FEATURE:

## RAW SEQUENCE LISTING

DATE: 01/23/2004

PATENT APPLICATION: US/10/009,472B

TIME: 15:45:15

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01232004\J009472B.raw

72 <223> OTHER INFORMATION: synthetic sequence; caspase-3 cleavage domain  
 74 <220> FEATURE:  
 75 <221> NAME/KEY: MISC\_FEATURE  
 76 <222> LOCATION: (5)..(5)  
 77 <223> OTHER INFORMATION: "Xaa" represents any amino acid  
 80 <400> SEQUENCE: 3

## W--&gt; 82 Asp Glu Val Asp Xaa

83 1 5  
 86 <210> SEQ ID NO: 4  
 87 <211> LENGTH: 5  
 88 <212> TYPE: PRT  
 89 <213> ORGANISM: Artificial Sequence  
 91 <220> FEATURE:  
 92 <223> OTHER INFORMATION: synthetic sequence; caspase-4 cleavage domain  
 94 <220> FEATURE:  
 95 <221> NAME/KEY: MISC\_FEATURE  
 96 <222> LOCATION: (5)..(5)  
 97 <223> OTHER INFORMATION: "Xaa" represents any amino acid  
 100 <400> SEQUENCE: 4

## W--&gt; 102 Leu Glu Val Asp Xaa

103 1 5  
 106 <210> SEQ ID NO: 5  
 107 <211> LENGTH: 5  
 108 <212> TYPE: PRT  
 109 <213> ORGANISM: Artificial Sequence  
 111 <220> FEATURE:  
 112 <223> OTHER INFORMATION: synthetic sequence; caspase-5 cleavage domain  
 114 <220> FEATURE:  
 115 <221> NAME/KEY: MISC\_FEATURE  
 116 <222> LOCATION: (5)..(5)  
 117 <223> OTHER INFORMATION: "Xaa" represents any amino acid  
 120 <400> SEQUENCE: 5

## W--&gt; 122 Trp Glu His Asp Xaa

123 1 5  
 126 <210> SEQ ID NO: 6  
 127 <211> LENGTH: 5  
 128 <212> TYPE: PRT  
 129 <213> ORGANISM: Artificial Sequence  
 131 <220> FEATURE:  
 132 <223> OTHER INFORMATION: synthetic sequence; caspase-6 cleavage domain  
 134 <220> FEATURE:  
 135 <221> NAME/KEY: MISC\_FEATURE  
 136 <222> LOCATION: (5)..(5)  
 137 <223> OTHER INFORMATION: "Xaa" represents any amino acid  
 140 <400> SEQUENCE: 6

## W--&gt; 142 Val Glu Ile Asp Xaa

143 1 5  
 146 <210> SEQ ID NO: 7  
 147 <211> LENGTH: 6

## RAW SEQUENCE LISTING

DATE: 01/23/2004

PATENT APPLICATION: US/10/009,472B

TIME: 15:45:15

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01232004\J009472B.raw

148 <212> TYPE: PRT  
 149 <213> ORGANISM: Artificial Sequence  
 151 <220> FEATURE:  
 152 <223> OTHER INFORMATION: synthetic sequence; caspase-7 cleavage domain  
 154 <220> FEATURE:  
 155 <221> NAME/KEY: MISC\_FEATURE  
 156 <222> LOCATION: (6)..(6)  
 157 <223> OTHER INFORMATION: "Xaa" represents any amino acid  
 160 <400> SEQUENCE: 7

## W--&gt; 162 Val Asp Gln Val Asp Xaa

163 1 5  
 166 <210> SEQ ID NO: 8  
 167 <211> LENGTH: 5  
 168 <212> TYPE: PRT  
 169 <213> ORGANISM: Artificial Sequence  
 171 <220> FEATURE:  
 172 <223> OTHER INFORMATION: synthetic sequence; caspase-8 cleavage domain  
 174 <220> FEATURE:  
 175 <221> NAME/KEY: MISC\_FEATURE  
 176 <222> LOCATION: (5)..(5)  
 177 <223> OTHER INFORMATION: "Xaa" represents any amino acid  
 180 <400> SEQUENCE: 8

## W--&gt; 182 Ile Glu Thr Asp Xaa

183 1 5  
 186 <210> SEQ ID NO: 9  
 187 <211> LENGTH: 5  
 188 <212> TYPE: PRT  
 189 <213> ORGANISM: Artificial Sequence  
 191 <220> FEATURE:  
 192 <223> OTHER INFORMATION: synthetic sequence; caspase-9 cleavage domain  
 194 <220> FEATURE:  
 195 <221> NAME/KEY: MISC\_FEATURE  
 196 <222> LOCATION: (5)..(5)  
 197 <223> OTHER INFORMATION: "Xaa" represents any amino acid  
 200 <400> SEQUENCE: 9

## W--&gt; 202 Leu Glu His Asp Xaa

203 1 5  
 206 <210> SEQ ID NO: 10  
 207 <211> LENGTH: 4  
 208 <212> TYPE: PRT  
 209 <213> ORGANISM: Artificial Sequence  
 211 <220> FEATURE:  
 212 <223> OTHER INFORMATION: synthetic sequence; calpain cleavage domain  
 214 <220> FEATURE:  
 215 <221> NAME/KEY: MISC\_FEATURE  
 216 <222> LOCATION: (4)..(4)  
 217 <223> OTHER INFORMATION: "Xaa" represents any amino acid  
 220 <400> SEQUENCE: 10

## W--&gt; 222 Val Leu Lys Xaa

## RAW SEQUENCE LISTING

DATE: 01/23/2004

PATENT APPLICATION: US/10/009,472B

TIME: 15:45:15

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01232004\J009472B.raw

```

223 1
226 <210> SEQ ID NO: 11
227 <211> LENGTH: 5
228 <212> TYPE: PRT
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: synthetic sequence; cathepsin-G cleavage domain
234 <220> FEATURE:
235 <221> NAME/KEY: MISC_FEATURE
236 <222> LOCATION: (5)..(5)
237 <223> OTHER INFORMATION: "Xaa" represents any amino acid
240 <400> SEQUENCE: 11
W--> 242 Ala Val Pro Phe Xaa
243 1 5
246 <210> SEQ ID NO: 12
247 <211> LENGTH: 8
248 <212> TYPE: PRT
249 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: synthetic sequence; collagenase cleavage domain
254 <220> FEATURE:
255 <221> NAME/KEY: MISC_FEATURE
256 <222> LOCATION: (8)..(8)
257 <223> OTHER INFORMATION: "Xaa" represents any amino acid
260 <400> SEQUENCE: 12
W--> 262 Pro Gln Gly Ile Ala Gly Gln Xaa
263 1 5
266 <210> SEQ ID NO: 13
267 <211> LENGTH: 5
268 <212> TYPE: PRT
269 <213> ORGANISM: Artificial Sequence
271 <220> FEATURE:
272 <223> OTHER INFORMATION: synthetic sequence; elastase I cleavage domain
274 <220> FEATURE:
275 <221> NAME/KEY: MISC_FEATURE
276 <222> LOCATION: (5)..(5)
277 <223> OTHER INFORMATION: "Xaa" represents any amino acid
280 <400> SEQUENCE: 13
W--> 282 Ala Ala Pro Val Xaa
283 1 5
286 <210> SEQ ID NO: 14
287 <211> LENGTH: 5
288 <212> TYPE: PRT
289 <213> ORGANISM: Artificial Sequence
291 <220> FEATURE:
292 <223> OTHER INFORMATION: synthetic sequence; elastase II cleavage domain
294 <220> FEATURE:
295 <221> NAME/KEY: MISC_FEATURE
296 <222> LOCATION: (5)..(5)

```

## RAW SEQUENCE LISTING

DATE: 01/23/2004

PATENT APPLICATION: US/10/009,472B

TIME: 15:45:15

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01232004\J009472B.raw

297 &lt;223&gt; OTHER INFORMATION: "Xaa" represents any amino acid

300 &lt;400&gt; SEQUENCE: 14

## W--&gt; 302 Ala Ala Pro Ala Xaa

303 1 5

306 &lt;210&gt; SEQ ID NO: 15

307 &lt;211&gt; LENGTH: 4

308 &lt;212&gt; TYPE: PRT

309 &lt;213&gt; ORGANISM: Artificial Sequence

311 &lt;220&gt; FEATURE:

312 &lt;223&gt; OTHER INFORMATION: synthetic sequence; granzyme B cleavage domain

314 &lt;220&gt; FEATURE:

315 &lt;221&gt; NAME/KEY: MISC\_FEATURE

316 &lt;222&gt; LOCATION: (4)..(4)

317 &lt;223&gt; OTHER INFORMATION: "Xaa" represents any amino acid

320 &lt;400&gt; SEQUENCE: 15

## W--&gt; 322 Ala Ala Asp Xaa

323 1

326 &lt;210&gt; SEQ ID NO: 16

327 &lt;211&gt; LENGTH: 9

328 &lt;212&gt; TYPE: PRT

329 &lt;213&gt; ORGANISM: Artificial Sequence

331 &lt;220&gt; FEATURE:

332 &lt;223&gt; OTHER INFORMATION: synthetic sequence; MMP-1 cleavage domain

334 &lt;220&gt; FEATURE:

335 &lt;221&gt; NAME/KEY: VARIANT

336 &lt;222&gt; LOCATION: (8)..(8)

337 &lt;223&gt; OTHER INFORMATION: d Arginine

340 &lt;220&gt; FEATURE:

341 &lt;221&gt; NAME/KEY: MISC\_FEATURE

342 &lt;222&gt; LOCATION: (9)..(9)

343 &lt;223&gt; OTHER INFORMATION: "Xaa" represents any amino acid

346 &lt;400&gt; SEQUENCE: 16

## W--&gt; 348 Pro Gln Gly Ile Ala Gly Gln Arg Xaa

349 1 5

352 &lt;210&gt; SEQ ID NO: 17

353 &lt;211&gt; LENGTH: 4

354 &lt;212&gt; TYPE: PRT

355 &lt;213&gt; ORGANISM: Artificial Sequence

357 &lt;220&gt; FEATURE:

358 &lt;223&gt; OTHER INFORMATION: synthetic sequence; kallikrein cleavage domain

360 &lt;220&gt; FEATURE:

361 &lt;221&gt; NAME/KEY: MISC\_FEATURE

362 &lt;222&gt; LOCATION: (4)..(4)

363 &lt;223&gt; OTHER INFORMATION: "Xaa" represents any amino acid

366 &lt;400&gt; SEQUENCE: 17

## W--&gt; 368 Pro Phe Arg Xaa

369 1

372 &lt;210&gt; SEQ ID NO: 18

373 &lt;211&gt; LENGTH: 7

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/009,472B

DATE: 01/23/2004  
TIME: 15:45:16

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF4\01232004\J009472B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>

to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 5 ✓  
Seq#:2; Xaa Pos. 6 ✓  
Seq#:3; Xaa Pos. 5 ✓  
Seq#:4; Xaa Pos. 5 ✓  
Seq#:5; Xaa Pos. 5 ✓  
Seq#:6; Xaa Pos. 5 ✓  
Seq#:7; Xaa Pos. 6 ✓  
Seq#:8; Xaa Pos. 5 ✓  
Seq#:9; Xaa Pos. 5 ✓  
Seq#:10; Xaa Pos. 4 ✓  
Seq#:11; Xaa Pos. 5 ✓  
Seq#:12; Xaa Pos. 8 ✓  
Seq#:13; Xaa Pos. 5 ✓  
Seq#:14; Xaa Pos. 5 ✓  
Seq#:15; Xaa Pos. 4 ✓  
Seq#:16; Xaa Pos. 9 ✓  
Seq#:17; Xaa Pos. 4 ✓  
Seq#:18; Xaa Pos. 7  
Seq#:19; Xaa Pos. 9  
Seq#:20; Xaa Pos. 4

## VERIFICATION SUMMARY

DATE: 01/23/2004

PATENT APPLICATION: US/10/009,472B

TIME: 15:45:16

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\01232004\J009472B.raw

L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0





1600

## RAW SEQUENCE LISTING

DATE: 01/21/2004

PATENT APPLICATION: US/10/009,472B

TIME: 15:07:32

Input Set : A:\ru-170.seq.txt

Output Set: N:\CRF4\01202004\J009472B.raw

5 <110> APPLICANT: Lam, Eric  
 6 del Pozo, Olga  
 8 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DETECTION OF ACTIVE PROTEASES  
 10 <130> FILE REFERENCE: RU-0170  
 12 <140> CURRENT APPLICATION NUMBER: US 10/009,472B  
 13 <141> CURRENT FILING DATE: 2002-03-29  
 15 <150> PRIOR APPLICATION NUMBER: PCT/US00/11893  
 16 <151> PRIOR FILING DATE: 2000-05-02  
 18 <150> PRIOR APPLICATION NUMBER: US 60/132,358  
 19 <151> PRIOR FILING DATE: 1999-05-04  
 21 <160> NUMBER OF SEQ ID NOS: 24  
 23 <170> SOFTWARE: PatentIn version 3.1

## ERRORED SEQUENCES

474 <210> SEQ ID NO: 24  
 475 <211> LENGTH: 6  
 476 <212> TYPE: PRT  
 477 <213> ORGANISM: Artificial Sequence  
 479 <220> FEATURE:  
 480 <223> OTHER INFORMATION: synthetic sequence; caspase-1 cleavage domain  
 482 <400> SEQUENCE: 24  
 484 Met Tyr Val Ala Asp Gly  
 485 1 5'

E--&gt; 491 (2)

Does Not Comply  
Corrected Diskette Needed

## VERIFICATION SUMMARY

DATE: 01/21/2004

PATENT APPLICATION: US/10/009,472B

TIME: 15:07:33

Input Set : A:\ru-170.seq.txt

Output Set: N:\CRF4\01202004\J009472B.raw

L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:242 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
L:491 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:24